

## ABSTRACT

A gain switching circuit switches a conversion gain of a preamplifier that is configured with a series circuit formed with a first resistor and a first switching element and a series circuit formed with a second resistor and a second switching element respectively connected in parallel with a feedback resistor. The gain switching circuit includes a first operating unit that generates a first switching element operating signal for closing the first switching element within a first gain switching period, and a second operating unit that generates a second switching element operating signal for closing the second switching element within a second gain switching period.